

1 Business Line Information

2 Another area of concern has been that the BCM does not
3 include business line information at the CBG level.
4 Therefore, the BCM's cost results for loop investment do
5 not include the impact of business lines. The model
6 does utilize an assumed level of business lines in the
7 sizing and design of switching plant.

8
9 The BCM inputs will be expanded to accommodate business
10 lines as a separate input by CBG. Therefore, when
11 business line data becomes available by CBG, the BCM
12 will be capable of immediately incorporating the data.

13
14 Currently, U S WEST is exploring direct third-party
15 sources of business line data by CBG area. At this
16 point, no suppliers of this data have been found.
17 Additionally, U S WEST is working with other parties to
18 develop statistical relationships between business line
19 data and public data sources so as to derive business
20 line data by CBG. However, using proprietary business
21 line location information in both Colorado and
22 California has produced no statistically reliable
23 information to estimate the number of business lines by
24 CBG.

25

1 In order to eliminate the possibility of calculating
2 unduly high residential costs in some CBGs because of
3 the exclusion of business lines, the BCM will include a
4 filter to identify CBGs that have a high probability of
5 being primarily business areas. These CBGs will be
6 flagged and an assumed level of business lines will be
7 included for network design purposes. This will assure
8 that these areas do not falsely appear as high cost
9 areas.

10
11 Engineering Assumptions

12 Additionally, there are three major areas where the
13 engineering assumptions of the BCM will be modified:
14 switching plant, distribution plant, and digital circuit
15 equipment. First, the switching module changes will
16 include multiple switch types to more closely reflect
17 the switch application.

18
19 Second, distribution plant engineering will be altered
20 to reflect the distribution demands of each CBG.

21 Varying the distribution plant engineering assumptions
22 in urban areas aligns the BCM engineering designs more
23 closely with actual engineering practices in these
24 areas.

25

1 Another distribution plant enhancement is that no copper
2 distribution distances will exceed those specified by
3 the user. The user will have a choice of 9,000 feet,
4 12,000 feet (the default), 15,000 feet, or 18,000 feet.
5 The limitation of copper technology serving distance has
6 the effect of producing multiple distribution areas
7 within rural CBGs. This change also aligns the BCM more
8 closely with actual engineering practices.

9
10 Digital Circuit Equipment

11 The last major area of change is that the costs for
12 digital circuit equipment used in digital line carrier
13 systems will reflect the fixed and variable nature of
14 the costs. The last change ensures that the cost for
15 DLC equipment properly reflects the effects of the
16 equipment loading in each CBG.

17
18 There are a number of other changes being made to the
19 BCM. The BCM will include costs of the local loop not
20 currently reflected in the model, slope data will be
21 added to the BCM inputs, and new variables that impact
22 structure costs will be added for future use.

23
24 Other Enhancements

25 There are two other changes being made to the BCM that
26 do not impact model results. These changes are designed

1 to make the BCM much more user friendly and to require
2 fewer computer resources. The Excel version of the BCM
3 is being changed to run as a single menu driven
4 spreadsheet, that allows simplified input modification
5 and provides a menu to select the states to process.
6 Another version of the BCM is being developed using the
7 Visual Basic computer language. This version will
8 produce the same results as the Excel version of the
9 BCM, however, it will run state-wide data using only 16
10 Meg of RAM, something not possible with the Excel
11 version. However, its calculations will not be visible
12 as in Excel.

13
14 **Rebuttal of Dr. Mercer's Testimony**

15
16 **Q. DID YOU REVIEW DR. MERCER'S DIRECT TESTIMONY IN THIS**
17 **CASE?**

18
19 **A. Yes.**

20
21 **Q. HAVE YOU REVIEWED DR. MERCER'S MODEL?**

22
23 **A. No.** Despite USWC's request to review Dr. Mercer's
24 model, a copy has not been provided. However, USWC
25 believes Dr. Mercer has an obligation to document his

1 model and explain its operation beyond what is contained
2 in his testimony.

3

4 Q. DOES HIS DIRECT TESTIMONY (PAGE 19, lines 7 to 10)
5 CONCLUDE THAT THE ESTIMATED MONTHLY COST PER LINE OF
6 BASIC LOCAL TELEPHONE SERVICE IN UTAH IS \$14.83 AND THAT
7 THE STATE-WIDE WEIGHTED AVERAGE LOOP COST IS \$10.62?

8

9 A. Yes.

10

11 Q. IS THE COST OF SERVICE IN UTAH AS STATED IN DR. MERCER'S
12 DIRECT TESTIMONY, THE SAME CONCLUSION FILED WITH THE FCC
13 ON DECEMBER 1, 1995 AS PART OF THE BENCHMARK COST MODEL
14 SPONSORED BY MCI, NYNEX, SPRINT, AND U S WEST?

15

16 A. No.

17

18 Q. HOW DOES IT DIFFER?

19

20 A. The Benchmark Cost Model produced a monthly cost for
21 Utah of \$28.01 using the ARMIS annual cost factor and
22 \$20.31 using the MCI/Hatfield annual cost factor. This
23 report was filed with the FCC on December 1, 1995 as I
24 mentioned previously. The model cost filed by Dr.
25 Mercer in this case is \$14.83.

26

1 **Q. WHAT DO YOU MEAN BY THE MCI/HATFIELD ANNUAL COST FACTOR?**

2

3 A. As I explained earlier in this testimony, the BCM
4 utilizes an annual cost factor to translate investment
5 to a recurring cost. The MCI/Hatfield annual cost
6 factor, filed with the FCC, utilizes a combination of
7 historically derived expense/investment relationships
8 combined with account specific expense levels derived
9 from various studies. The historically derived
10 relationships are based on national data, while the
11 account specific expense data are derived from other
12 sources that are not clearly documented and therefore
13 not verifiable as to their accuracy or applicability.
14 Additionally, several expense categories are excluded
15 altogether, such as some customer operations expenses
16 and marketing expenses. Dr. Mercer's Model filed in
17 this proceeding uses similar expense methodology to the
18 MCI/Hatfield factor. The primary differences are that
19 the historically derived relationships are based on
20 U S WEST Utah data and the overhead expenses are reduced
21 from 10 percent to 6 percent.

22

23 **Q. HOW DOES DR. MERCER'S MODEL UTILIZE THE BCM?**

24

25 A. Based on Dr. Mercer's direct testimony, his model
26 incorporates three of the four BCM modules into his

1 model calculations. The first module is the BCM input
2 data, which assigns CBGs to the closest central office,
3 determines the CBG's spatial relationship to the CBG,
4 and lists the USGS terrain data associated with the CBG.
5 The second module determines the feeder quadrant on
6 which a CBG is served, the feeder plant distance, the
7 distribution plant distance, and the terrain structure
8 multipliers applicable to the CBG. The third module
9 designs the feeder and distribution plant with the
10 appropriate sharing of feeder plant, the associated
11 structure, and the total investments involved for the
12 major cost drivers contained in the model.

13
14 **Q. WHAT CHANGES WERE MADE TO BCM AS IT IS INCORPORATED INTO**
15 **DR. MERCER'S MODEL?**

16
17 **A.** The one change to the BCM was to remove the switching
18 and expense module and to utilize the intermediate
19 results as input to Dr. Mercer's capital cost module.
20 In the BCM modules utilized by Dr. Mercer, modifications
21 were made to three input areas of the BCM -- adding
22 business lines and additional residential lines,
23 modifying fill factors, and lowering Digital Loop
24 Carrier (DLC) prices. Additionally, by excluding the
25 final module of the BCM, Dr. Mercer's modifications
26 lowered switching prices and lowered the recurring

1 expenses associated with local service (when compared to
2 the original MCI/Hatfield expenses utilized in the BCM).
3 Additionally, Dr. Mercer added two investment amounts to
4 represent the investment associated with drop wire and
5 the network interface device.
6

7 **Q. IN YOUR TESTIMONY ABOVE YOU ADDRESS FOUR REASONS WHY THE**
8 **BCM DOES NOT DEFINE AN INDIVIDUAL COMPANY'S COSTS; DO**
9 **ANY OF DR. MERCER'S MODIFICATIONS ADDRESS THESE**
10 **CONCERNS?**
11

12 **A.** No, none of the modifications made by Dr. Mercer address
13 the issues of using the BCM to identify an individual
14 company's cost of residential service. Hypothetical
15 network costs cannot be used as tests for an individual
16 company for cross-subsidy or price floors. The BCM is
17 designed to identify high cost CBGs based on the most
18 relevant cost factors, not to identify all the
19 investment and direct expenses associated with a LRIC
20 study. The additional investments for drop wire and
21 network interface devices identified by Dr. Mercer do
22 not address the urban distribution costs not identified
23 by the BCM, nor is it clear that the investments for
24 drop wire and network interface devices adequately
25 reflect Utah-specific geography.
26

1 Q. IS THE HATFIELD MODEL A LRIC STUDY?

2

3 A. No, it is not. Dr. Mercer's model is not even
4 consistent with the Consensus Pricing Principles which
5 were agreed to by AT&T and other parties in Arizona.
6 (Geri Santos-Rach has included the Consensus Costing
7 Principles in her testimony as Exhibit GGSR-1). Other
8 than using the forward-looking technologies in the BCM,
9 the Hatfield model does not meet the requirements of a
10 LRIC model -- even by the standards set forth in AT&T
11 witness Pat Parker's direct testimony in Exhibit PAP-1.
12
13 First and foremost, Dr. Mercer does not present a long
14 run view of demand for local loops. He uses a
15 historical demand set forth in the FCC ARMIS reports.
16 Additionally, Dr. Mercer modified the BCM's default
17 inputs for the fill factors in the distribution plant so
18 that there is no possibility to accommodate future
19 growth (and probably not even the current year's access
20 line demand.) This results in understating the true
21 LRIC cost.

22

23 Second, most of the expense data used by Dr. Mercer is
24 historically derived or not shown to be forward-looking
25 in its application in Utah. The most glaring example of
26 this type of expense is depreciation expense. Given the

1 competitive future of the telecommunications industry
2 and the pace of technological change, an average plant
3 life of 18 years in a forward-looking model is
4 unrealistic. One can hardly imagine that any piece of
5 plant or equipment put in place today would have any
6 technological, economic usefulness or value in the year
7 2014.

8
9 In fact, both AT&T and MCI are on record supporting the
10 use of forward-looking economic lives in TSLRIC studies.
11 In Iowa Docket No. RPU-95-10, Dr. David Kaserman,
12 responding for AT&T to the question of "In a properly
13 conducted TSLRIC study should regulatorily prescribed
14 depreciation rates or forward looking depreciation rates
15 be used?", stated that, "Forward-looking depreciation
16 rates should be used, because TSLRIC is a long-run
17 concept that, by definition, is forward-looking." In
18 the same docket Anthony J. DiTirro of MCI, answered
19 "yes" to the question, "Given Mr. DiTirro's testimony,
20 does MCI believe the use of economic depreciation lives
21 is appropriate in a TSLRIC study?"

22
23 Lastly, Dr. Mercer does not include all the relevant
24 costs of the local loop or basic service to be
25 considered a LRIC study. I have previously discussed

1 some of the major costs, such as urban distribution
2 plant costs, excluded by Dr. Mercer's model.

3
4 **Q. DO THE INPUT MODIFICATIONS OF THE BCM IN DR. MERCER'S**
5 **MODEL APPEAR REASONABLE?**

6
7 **A.** Dr. Mercer's modifications seem to ignore the internal
8 network structure in the BCM when making isolated
9 changes to prices and other inputs. In other words, Dr.
10 Mercer's modifications ignore the network assumptions
11 used in the BCM in making price input changes. The
12 input changes are outside of the range of reason when
13 examined within the network logic of the BCM.

14
15 **Q. CAN YOU GIVE AN EXAMPLE OF AN UNREASONABLE MODIFICATION**
16 **OF A BCM INPUT MADE BY DR. MERCER IN HIS MOST RECENT**
17 **UTAH COST STUDY?**

18
19 **A.** Yes. The Digital Loop Carrier (DLC) investment and
20 discount input changes made by Dr. Mercer are not
21 consistent with the manner in which DLC equipment is
22 included in the BCM. Dr. Mercer reduced the input for
23 the list price for "SLC Series 2000" digital line
24 carrier system by 50% from the default price and also
25 doubled the default discount from the list price. These
26 changes were made in isolation of the BCM logic for

1 utilizing DLC - type equipment. The BCM uses a DLC cost
2 per line assuming that each DLC terminal is at its
3 optimum fill. Obviously, not all DLC terminals are
4 fully utilized, especially in rural areas. Therefore,
5 Dr. Mercer's modifications produce unreasonably low
6 investment for DLC equipment. The BCM logic would need
7 to be changed to reflect the costs of individual
8 terminals, not individual channels, as currently
9 configured in the BCM, to reasonably utilize discounts
10 of this magnitude.

11
12 Investment reductions of this nature have impacts far
13 beyond the return on investment calculated by the model.
14 For instance, the reduced DLC investment also drives
15 reductions in circuit equipment maintenance expense,
16 reductions in secondary support equipment investment, as
17 well as reductions in depreciation expense, which is
18 already too low because of an expected DLC equipment
19 life of 18 years.

20
21 **Q. WHAT IS THE IMPACT OF THE CHANGE?**

22
23 **A.** The cost was reduced by 15 percent or \$ 2.40 per month,
24 using a comparable expense factor.

1 Q. YOU STATED EARLIER THAT DR. MERCER MODIFIED THE DEFAULT
2 FILL FACTORS FOR DISTRIBUTION PLANT. WHAT IS THE IMPACT
3 OF THAT MODIFICATION?
4

5 A. Dr. Mercer raised the default fill factors for five of
6 the six distribution plant density groups. The
7 categories, standard BCM fill factors and Dr. Mercer's
8 changes are shown in the table below.
9

Households Per Square Mile (HH/SM)	BCM Fill Factor	Mercer Fill Factor
0 - 5	.25	.50
5 - 200	.35	.55
200 - 650	.45	.60
650 - 850	.55	.65
850 - 2550	.65	.70

10
11 As a result of Dr. Mercer's manipulation of fill
12 factors, the BCM monthly cost for Utah decreases by
13 \$4.25, when using the ARMIS annual cost factor and
14 decreases by \$3.08, when using the MCI/Hatfield annual
15 cost factor.
16

17 Q. DO YOU FEEL THAT DR. MERCER'S FILL FACTORS ARE
18 ACHIEVABLE IN PRACTICE?
19

1 A. Any fill factor is generally achievable, however the
2 implications of various fill factors can be serious.
3 Placing new plant at Dr. Mercer's high utilization rates
4 could lead to a premature exhaust of facilities, held
5 orders and increased costs.

6

7 Q. CAN YOU PROVIDE ANOTHER EXAMPLE OF AN UNREASONABLE
8 MODIFICATION OF THE A BCM INPUT MADE BY DR. MERCER IN
9 HIS MOST RECENT UTAH COST STUDY?

10

11 A. Yes, the BCM only includes service to residential
12 households, Dr. Mercer's model includes business lines.

13

14 Q. WHY DID THE DEVELOPERS OF THE BCM EXCLUDE BUSINESS
15 LINES?

16

17 A. The Joint Sponsors wanted to include business lines in
18 the BCM and explored numerous data sources and methods
19 for estimation of these lines. However, none of the
20 sources were capable of producing a reliable estimate of
21 business lines by CBG. Third party data sources, such
22 as Dunn and Bradstreet, include geocoded information on
23 large businesses, but at best only include employee
24 counts and standard industry codes. This information
25 cannot be reliably converted to business line counts by
26 CBG.

1

2 Q. HAVE YOU FOUND ANY OTHER METHODS THAT CAN REASONABLY
3 ALLOW YOU TO PREDICT THE BUSINESS LINE COUNTS BY CBG?

4

5 A. No. Using proprietary business line data for USW, I
6 found no statistical relationship between business lines
7 and CBG household density or between business lines and
8 other CBG characteristics. Additionally, Pacific Bell
9 performed a similar analysis using their proprietary
10 business data and found a very low statistical
11 relationship between business lines and CBG
12 characteristics.

13

14 Q. DOES THE EXCLUSION OF BUSINESS LINES INTERFERE WITH THE
15 BCM'S STATED PURPOSE OF IDENTIFYING HIGH COST CBGS?

16

17 A. No. The Joint Sponsors feel that the impact of
18 excluding business lines from the calculation of the
19 benchmark cost in high cost CBGs is de minimus. The
20 model enhancements to provide an input area for business
21 lines, as data sources develop, and to filter CBGs with
22 a high probability of being areas of high business line
23 concentration will essentially eliminate the few
24 business areas mis-identified as high cost CBGs.

25

1 Q. WHAT IS THE EFFECT OF DR. MERCER'S METHOD OF INCLUDING
2 BUSINESS LINES IN THE CALCULATION OF THE BCM COST PER
3 LINE?
4

5 A. Dr. Mercer used multipliers for each density group to
6 include business and second residential lines. This
7 calculation assumes that each CBG has a constant ratio
8 of total lines to residence lines for any given density
9 group. For example, in the lowest density range the
10 Hatfield model assumes that business lines constitute
11 approximately nine percent of the number of residence
12 lines. Thus, if one were to find only 10 residential
13 lines in a CBG in downtown Salt Lake City that had a low
14 density of households per square mile, the Hatfield
15 model would assume only one additional business line for
16 that CBG, instead of the hundreds or thousands of
17 business lines that actually exist there. This type of
18 modification does not improve the BCM's accuracy, it
19 does the opposite, by putting additional telephone plant
20 in the wrong places.

21
22 The highest business line multiplier was used in the
23 1000 - 5000 population per square kilometer (KM²)
24 density group. This density group has 57 percent of the
25 residential lines in the state, as well as a cost of 86
26 percent of the statewide average. The effect of

1 utilizing business lines in this manner is to lower the
2 statewide monthly cost. As I stated earlier, I found no
3 statistical relationship between CBG household density
4 and business lines.

5
6 **Q. PLEASE SUMMARIZE YOUR TESTIMONY.**

7
8 **A.** The Joint Sponsors have developed the BCM to identify
9 high cost Census Block Groups across the nation.
10 Hatfield Associates have inappropriately incorporated
11 the BCM into their own model. Dr. Mercer states their
12 basic model uses a TSLRIC methodology for the
13 development of the cost of basic local service as well
14 as the local loop. My testimony demonstrates that Dr.
15 Mercer's model is not a LRIC study of local service nor
16 does it include all network costs associated with basic
17 local service. Therefore, Dr. Mercer's estimates for
18 the cost of basic local service and the cost of the loop
19 are neither accurate or appropriate.

20
21 The four primary areas where Dr. Mercer's methodology is
22 flawed follow:

- 23 • Long Run Access Line Demand is not included;
- 24 • Forward-looking expenses are not included;
- 25 • Major urban investments are excluded by
- 26 inappropriately using the BCM; and

1 • Major investments are understated by
2 inappropriately modifying BCM inputs.

3

4 Q. **DOES THIS CONCLUDE YOUR TESTIMONY?**

5

6 A. Yes, it does.

7

8

APPENDIX G

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USWEST

26 April 1996

(Return Receipt Requested)

Lee Selwyn
Economics and Technology, Inc.
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RE: COPYRIGHT LICENSE TO BENCHMARK COST MODEL

Mr. Selwyn:

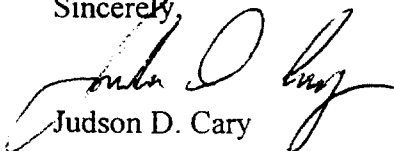
The Joint Sponsors (MCI, NYNEX, Sprint, and U S WEST) of the Benchmark Cost Model computer program (BCM) jointly developed and own all rights in the BCM. A limited license to *use* the BCM was granted to Economics and Technology, Inc. (ETI) under the terms and conditions of a software license agreement (a blank copy is attached). The software license agreement specifically reserves all other rights in the BCM, including the right to modify the program.

It has recently come to our attention that ETI published a report titled "The Cost of Universal Service: A Critical Assessment of the Benchmark Cost Model" dated April 1996 (see attached excerpt). In the report ETI states on page 112, footnote 166, that "The Main Logic Sheet of the Loop Module where the copper/fiber crossover algorithm is found is password protected. *We were able to overcome this restriction.*" (emphasis added). Such modification to the BCM is strictly forbidden under the terms and conditions of the license agreement.

Therefore, we request that all modifications to the BCM be delivered to U S WEST or certified destroyed. We also request written assurances of such delivery or destruction, and further written assurances that ETI will adhere to the terms and conditions of the BCM software license agreement.

If you would like to discuss this matter further, please contact me. I look forward to your prompt written response.

Sincerely,



Judson D. Cary

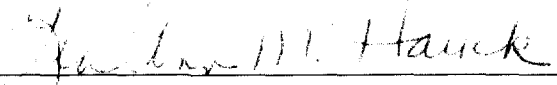
enclosures: excerpt of "The Cost of Universal Service: A Critical Assessment of the
Benchmark Cost Model"
Benchmark Cost Model Order Form and Software License

April 26, 1996

bcc: File
Peter Copeland
Steve Jewett

CERTIFICATE OF SERVICE

I, Lea Ann M. Hauck, do hereby certify that on this 7th day of May, 1996, I have caused a copy of the foregoing **REPLY COMMENTS OF U S WEST, INC.** to be served via first-class United States Mail, postage prepaid, upon the persons listed on the attached service list.



Lea Ann M. Hauck

***Via Hand-Delivery**

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